



UNIVERSITÀ DI PISA

COSMOCHIMICA

LUIGI FOLCO

Anno accademico
CdS

2017/18
SCIENZE E TECNOLOGIE
GEOLOGICHE
173DD
6

Codice
CFU

Moduli COSMOCHIMICA	Settore/i GEO/07	Tipo LEZIONI	Ore 54	Docente/i LUIGI FOLCO
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Obiettivi di apprendimento

Conoscenze

The student who successfully completes the course will have the basic knowledge of the astrophysical process that led to the formation of the Solar System and of the geological processes that occurred and occur on the various constituent bodies. The student will be able to petrographically analyse and classify extraterrestrial rocks (meteorites, micrometeorites and impactites) in order to lay the basis for understanding their petrogenesis and geological context.

Modalità di verifica delle capacità

Through continuous discussion on the treated topics and laboratory work.

Programma (contenuti dell'insegnamento)

Element production and stellar evolution
Cosmochemistry versus geochemistry
Solar System abundances of elements and isotopes
Presolar History Recorded in Extraterrestrial Materials
Meteorites: a general introduction
Chondrites and Chondrite parent bodies
Achondrites, Iron and stony iron meteorites and their parent bodies
Micrometeorites and their parent bodies
Interplanetary Dust Particles and ablation debris
Chronology of the early solar system
Chemistry of anhydrous planetesimals
Chemistry of comets and other ice-bearing planetesimals
Geochemical exploration of planets: the Moon and Mars as case studies
Geochemical exploration of planets: Mars as case studies
Cosmochemical models for the formation of the solar system
Chronometry of Meteorites and the Formation of the Earth and Moon
The Early Earth

Modalità d'esame

Oral exam

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